Page 1 of 3 ATTY. DOCKET NO. APPLICA 1533.1100001 09/826,206 FORM PTO-1449 APPLICANT John D'Elia INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP April 5, 2001 To be assigned U.S. PATENT DOCUMENTS EXAMINER CLASS SUB-FILING DATE DOCUMENT DATE TNTTTAL NAME NUMBER CLASS 253.3 09/27/1989 AA1 4,933,289 06/12/1990 Imai et al. 435 4,935,359 435 138 02/03/1988 AB1 06/19/1990 Yin et al. C1 435 5,399,496 03/21/1995 320.1 08/24/1992 Fujiwara et al. $\sqrt{D1}$ 5,474,924 12/12/1995 435 138 11/22/1989 Nogami et al. AE1 435 252.1 112/26/1994 5,580,782 12/03/1996 Beppu et al. 435 08/19/1998 6,127,156 189 AF1 10/03/2000 Hoshino et al. AG1 6,127,174 10/03/2000 Tonouchi et al. 435 320.1 08/10/1999 ΑН ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS Meng Yes AL1 EP 1 076 094 A2 02/14/2001 Europe No Yes No AΜ Yes AN No Yes ΑO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Chen, B.P., and Hai, T., "Expression vectors for affinity purification and radiolabeling of proteins using Escherichia coli as host, " Gene 139:73-79, AR 1 Elsevier Science B.V. (1994). Delic, V., et al., "Microbial Reactions for the Synthesis of Vitamin C (L-Ascorbic Acid)," in Biotechnlogy of Vitamins, Pigments and Growth Factors, AS 1 Vandamme, E.J., ed., Elsevier Applied Science (London & New York) pp. 299-336 (1989). Lonsdale, D.M., et al., "pFC1 to pFC7: A novel family of combinatorial cloning Mulg ΑT 1 vectors," Plant Biol. Reporter 13:343-345, Transaction Periodicals Consortium (1995).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Page 3 of 3 ATTY. DOCKET NO. APPLICATION NO. 1533.1100001/MAC/DJN 09/826,206 FORM PTO-1449 APPLICANT D'Elia FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP April 5, 2001 1645 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AB AF AG AH ΑI ΑJ AΚ FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER CLASS Yes AL No Yes AM No APR | 5 2002 Yes AN No TECH CENTER 1600/2900 Yes ΑO No Yes AΡ No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Claims as pending 04/09/2002 in U.S. Patent Application No. 09/722,427, Stoddard AR et al., filed November 28, 2000: a divisional of US Patent Application No. <u>5</u> 09/393,655, now US Patent 6,316,231 (document AJ1). AS <u>5</u> U.S. Patent Application No. 09/826,205, Schmidt et al., filed April 5, 2001. beeg AΤ <u>5</u> U.S. Patent Application No. 09/826,191, D'Elia, J. et al., filed April 5, 2001. EXAMINER DATE CONSIDERED

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Application:

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Confirmation: 2584

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Applicant(s): John D'Elia

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■ That each item of information contained in the information disclosure statement was cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

	init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
h	n	P01	2421611	1947-06-03		Gray, B.E.	195	47
		P02	3043749	1962-07-10		Huang, H.T.	195	47
		P03	3234105	1966-02-08	1717 83 1703 1704 1707 1707 1707 1707 1707 1	Motizuki et al.	195	49
		P04	3907639	1975-09-23		Makover et al.	195	36 R
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1	₽	P05	3912592	1975-10-14		Makover et al.	195	31 R
	·	P06	4876195	1989-10-24		Shirafuji et al.	435	137
		P07	4877735	1989-10-31		Nogami et al.	435	138
		P08	4892823	1990-01-09		lmai et al.	435	138
		P09	4945048	1990-07-31		Uchihori et al.	435	105
		P10	4960695	1990-10-02		Hoshino et al.	435	42
		P11	4994382	1991-02-19		Ameyama et al.	435	119
		P12	5082785	1992-01-21		Manning et al.	435	252.32
		P13	5312741	1994-05-17	TANDA SANDA	Hoshino et al.	435	42
		P14	5344768	1994-09-06		Urakami, T.	435	119
		P15	5437989	1995-08-01		Asakura et al.	435	190
ed		P16	5541108	1996-07-30		Fujiwara et al.	435	252.1

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	AS	<u>6</u>	Ameyama, M., et al., "Existence of a Novel Prosthetic Group, PQQ, in Membrane-Bound, Electron Transport Chain-Linked, Primary Dehydrogenases of Oxidative Bacteria," FEBS Lett. 130:179-183, Elsevier/North-Holland Biomedical Press (1981)						
mod	AT	Bishop, A., et al., "Pyrroloquinoline Quinone: A Novel Vitamin?," Nutrition Rev. 56:287-293, International Life Sciences Institute (1998)						trition Rev.	
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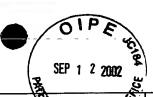
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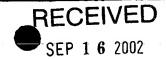
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Page 6 of 13

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

П	ATTY. DOCKET NO. 1533.1100001/MAC/DJN	APPLICATION NO. 09/826,206
	APPLICANT John D'Elia	
- 1	FILING DATE April 5, 2001	GROUP 1652

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	AS	11	Biotechnology	, Walker, J.M	E Product Formation," in ., and Gingold, E.B., ed 15-20, The Royal Societ	ls., Royal	Society o	of Chemistry,
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Moor	AR	Yin, GL., et al., "Studies on the Production of Vitamin C Precursor 2-Keto-L-Gulonic Acid from L-Sorbose by Fermentation. I. Isolation, Screening and Identification of 2-Keto-L-Gulonic Acid Producing Bacteria," Acta Microbiologic Sinica 20:246-251, Weishengwu Xuebao (1980)							
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Page 8 of 13

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FORM PTO-1449

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Page 9 of 13

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FORM PTO-1449

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Page 10 of 13

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FORM PTO-1449

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	AS	<u>15</u>	Dialog File 34 for Japanese 1	17, Accession Patent Publicε	No. 04958071, JPO & JAP ation No. JP 7-250671 (D	IO English	language 4)	abstract
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Page 11 of 13

FORM PTO-1449

FORM PTO-1449

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Page 12 of 13

FORM PTO-1449

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ATTY. DOCKET NO. 1533.1100001/MAC/DJN

APPLICATION NO. 09/826,206

APPLICANT John D'Elia

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